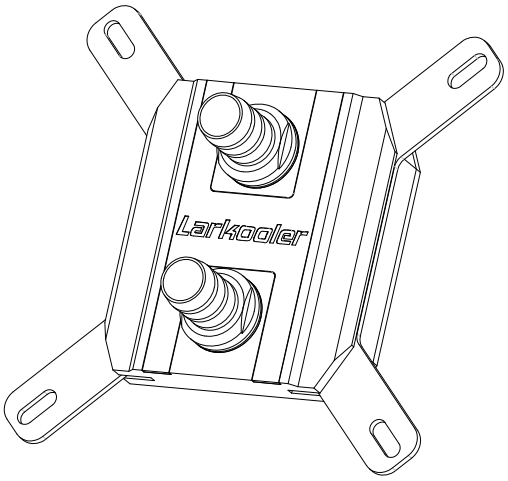
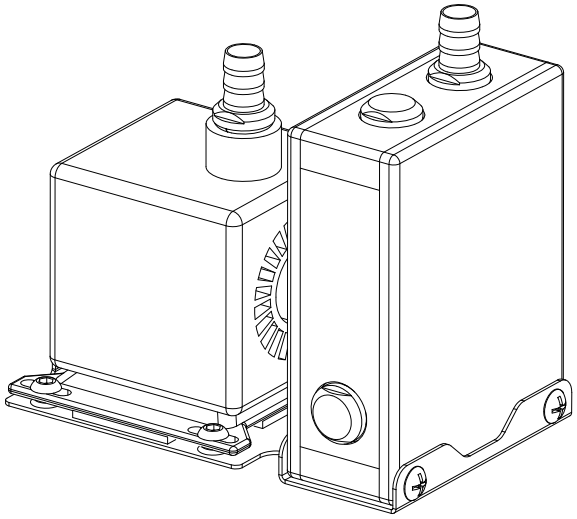
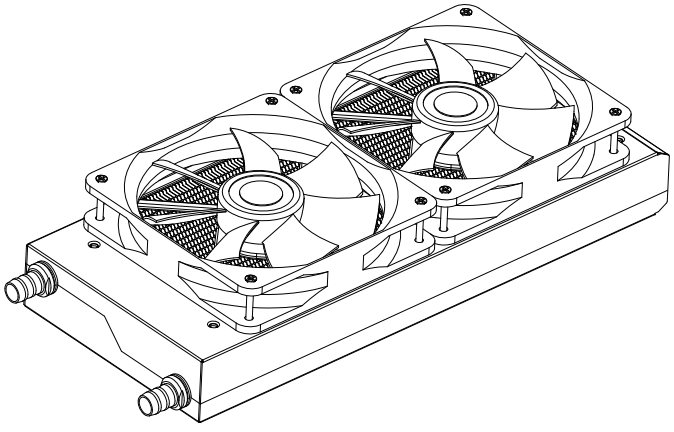
KU3241 User Manual







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1.Specifications:

◆ Heat Exchange Radiator

1) Dimension:
   310(L)X 124(W)X 35(H)mm
2) Weight: 680g
3) Material:
   Copper tube and aluminum fin
4) Fan Speed:
   1200 RPM(7V)-1500 RPM(12V)
5) Operating Temperature:
   0℃~40℃

◆ PUMP

1) Dimension:
   119.2(L) X 78(W) X 117.4(H)mm
2) Power Consumption: 10.8W
3) Operating Voltage: DC 12V
4) Flow Rate: 450L/Hr
5) Max. Water Lift: 2.1M

◆ CPU Water-Block

1) Dimension:
   60(L) X 54(W) X 14(H)mm
2) Material: Copper
3) Weight: 330g
4) Application:
   Intel LGA 1366 / LGA 1156 / LGA 775
   AMD AM3 / AM2 / AM2+ / K8

◆ Reservoir

1) Dimension:
   75(L) X 100(W) X 35(H)mm
2) Material: Acrylic
3) Capacity: 140ml

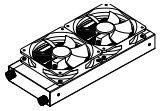
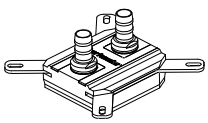
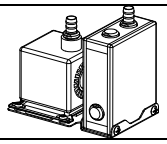
◆ Tube

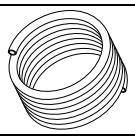
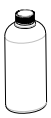
1) Dimension :
   ID 9.5mm / OD12.5mm
2) Material: PU
3) Life: 1 Year
4) Maximum Temperature: 50℃

◆ Coolant

1) Capacity: 500 C.C.
2) Material: Pure Water
3) Anti-Freeze: -2℃
4) Life: 2 Years

2.List of Product Components:

Component		QTY
RX243		×1
CWB-30		×1
P4501 Replacement		×1

Component		QTY
PU Tube		×1
Coolant		×1
User Manual		×1

3. Safety Notes

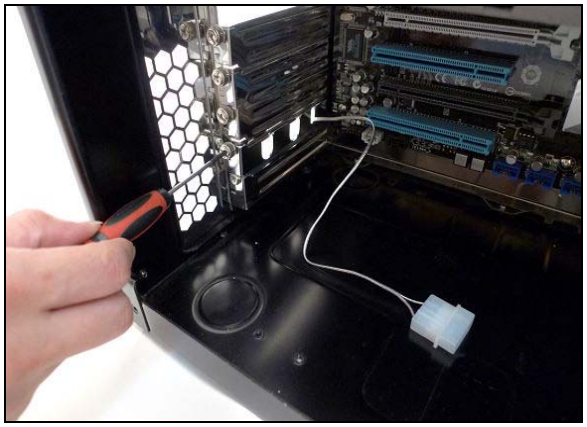
1) Read this instruction carefully before installing and running this product.
2) If you are new to the water cooling system, we suggest you ask for help.
3) Please disconnect all powers of the computer before installing this product.
4) Please note all safety issues common with all electronics to avoid damages.
5) The product is suitable for home or office use only, no other special applications, such as medical are allowed.
6) Only use Larkooler coolant.
7) Please place in open space, avoid direct sunlight and heat sources.
8) Backup the data on the computer before installing.
9) All water lines must be locked tightly into place to avoid damages.
10) If there is problem with the water cooling system or the motor makes unusual noises, turn off computer for a system check (see Trouble Shooting).
11) If leakage appears, shut down system for repair and checking (see Trouble Shooting).
12) Conduct regular checks on the water volume in the system.
13) We suggest installing a temperature controlling program on your computer, or activate the function in the BIOS, when the CPU temperature reaches over 65℃, turn off for maintenance check.
14) Do not drink the coolant; place the coolant out of reach of children.

4. How It Works

KU3241 Water cooling system uses the heat exchange theory, when the computer starts, the water cooling system would start, under the diving power of the circulation pump, the water would circulate in the pipes, the heat of the chips will be transmitted to the heat exhaust and transpired by the radiator.

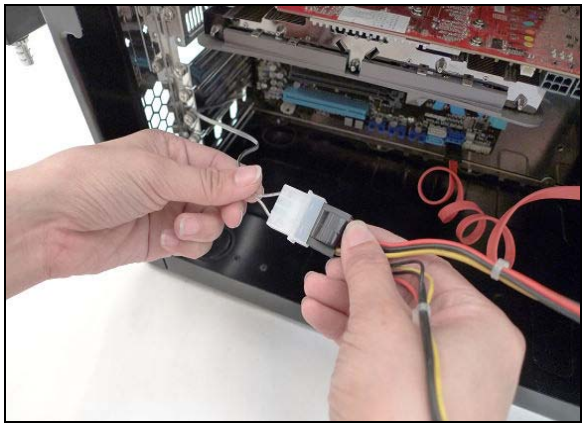
5. Power Supply Connection:

-STEP1-



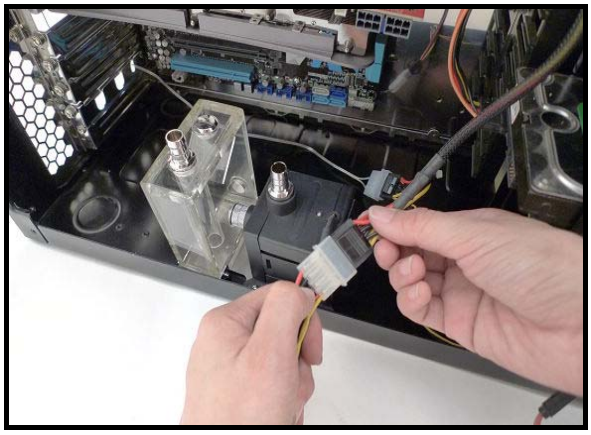
- Remove side panel, threat fan wiring as shown on picture, screws on I/O bracket until locked in.

-STEP2-



- Connect the fan wiring with power supply.

-STEP3-

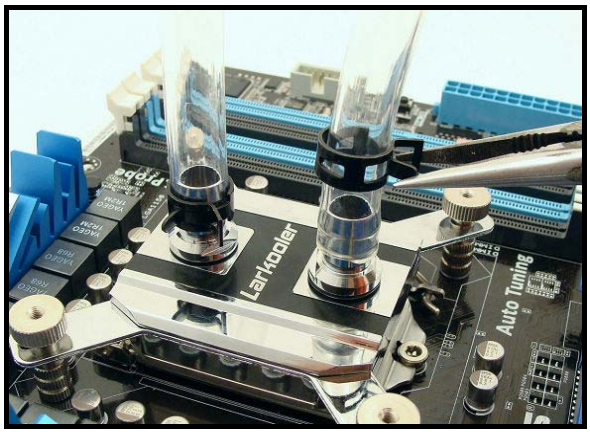


- Connect the pump connector cable onto the computer.

6. Tube Connection:

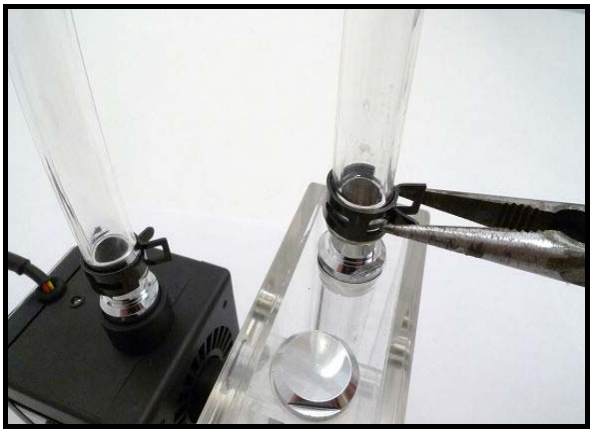
1. Determine the length of the tube required between the Water-Blocks before cutting and connecting the water lines.
2. The ends of the tube should be even and smooth, the tube should be fixed to the bottom of the connecter to avoid leakage.
3. Avoid curving or bending of the tube, to allow coolant running smoothly.
4. The order of tube connection does not affect the cooling effect.

-STEP1-



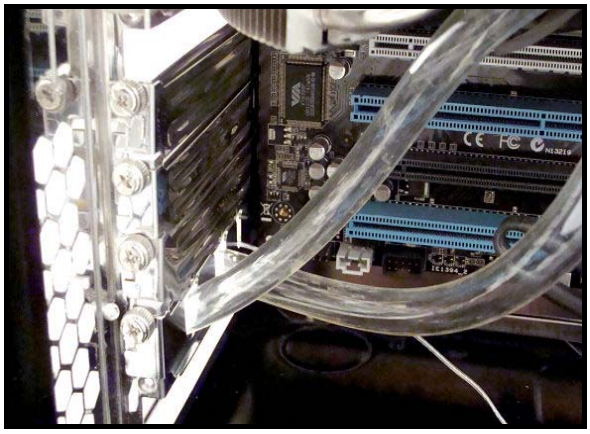
- First, set in the clamp on one end of the tube, connect the tube with tubing adapter, and use pliers to move the clamp onto proper location.

-STEP2-



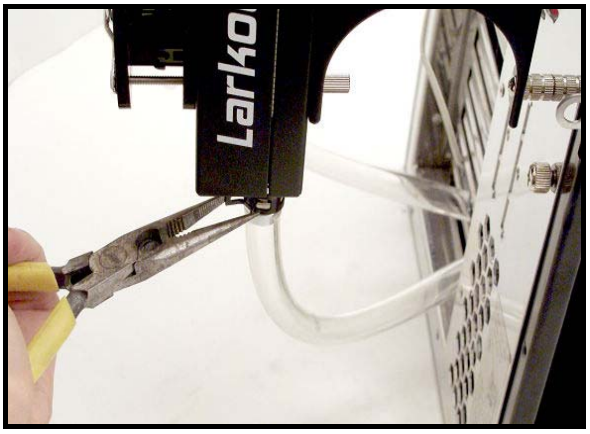
- Connect the pump tubing adapter with the tube, use pliers to move the clamp onto proper location.

-STEP3-



- Allow the two internally connected tubes to go through the holes on the back of the housing.

-STEP4-



- Connect heat exhaust radiator tubing adapter with the tube and use pliers to move the clamp onto proper location.

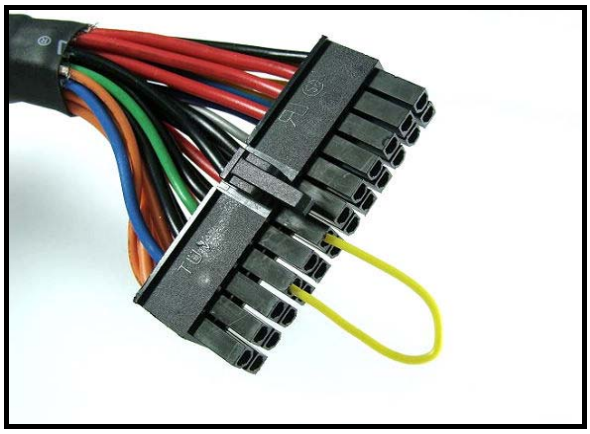
-STEP5-

- Tube connection completed.

7. Running Test:

Please disconnect all powers inside the main frame (including hard drives and CD-ROM). Test Run the system for 20 mines, check if all parts are correctly connected.

-STEP1-



- Insert ATX jumper wire into the 4th and 6th socket of the power supply connector of ATX-motherboard.

-STEP2-

- Loosen the nozzle socket plug of the reservoir; pour in some coolant to the water tank.

-STEP3-

- Press the power button to start. The pump will start operating after started, which will slightly lower the water level in the reservoir, then fill in the reservoir with coolant.

8. Completing The System Installation:

8-1 Completion

- After system test run is complete, you can start using the KU3241 water cooling system. Before starting the computer, remove ATX jumper from the ATX-Main Frame power sockets,

8-2. Maintenance:

We value the reliability and convenience during the development of this product, however you would still need to note the following:

1. Check regularly whether there are any color or quality changes of the water lines, if so replace the lines regularly.
2. Check regularly if there are any damages or worn parts in the system, replace immediately.
3. Check the water volume and quality in the system regularly, should there be quality or color changes, replace the coolant immediately; recommended change time ever 6 months.
4. Make sure no foreign substance is in the system, these substances may cause blockage to the water-block, causing system circulation problems.
5. If system has been moved (transported) or has not been used for a long time, please check system before using.

8-3. Trouble Shooting

We list the common issues and their solutions as follows, if there is a system problem, please refer below. If the issues persist, contact us for technical support.

Common Issue	Solution
Water line leakage	●Check if all connections are locked tight. ●Check if water line is plugged in correctly, and all bolts and screws are tightly locked in.
Mother board water splash	●Dry the mother board for 8-12 hrs, or blow dry the mother board.
Bad heat transmittance	●Is the pump connected to power and running. ●Are the water lines bend to stop circulation. ●Is the CPU Water-Block correctly installed onto the CPU. ●Are there obstructions near the BA2-241 system to stop the exhaust fan from releasing air. ●Is the heat of the system released ●Is the fan speed too slow ●If you are cooling multiple locations CPU + display card + bridges), you need another cooling component.
Water circulation stopped or is slow	●Check if pump is connected to power, Is it turned on. ●Check if water volume in the tank is sufficient. ●Check if water lines are bend ●Check if system water is clean and has no foreign objects.
Pump is too loud	●Check if water volume in the tank is sufficient. ●Check if there is air in the pump.
The order of connecting	●Depending of personal convenience, no strict order is required and the order does not affect the heat transmitting effect.

9. Warranty:

9-1 Coverage:

Larkooler values the quality and safety of our products, and strict quality control measures are in place. Within one (1) year of purchase is our warranty period, if you encounter any issues during such time, a free service will be carried out. The warranty only covers Larkooler products themselves, other issues caused by the user, or by applying our products onto hardware that is not recommended, or by the user modified our product, are not covered by the warranty and Larkooler cannot be held responsible. As for damages caused by natural forces, and other issues Larkooler should not be held responsible, are not covered by the warranty and Larkooler will not be responsible to any of such issues.

9-2 Terms and Conditions:

1) Warranty period starts from the date users purchase the product from the distributer.
2) Warranty only covers Larkooler products; other products (such as motherboard, CPU and VGA card) are not covered.
3) Warranty is only valid under normal usage circumstances, issues caused by the user (for instance by modifying the product), are not covered by Larkooler.
4) Misuse, maintenance failure by the user or damages caused during transportation is not covered under warranty.

Manufacture Date : **ver.: 1.1**